



General Information for 1999 corn rootworm insecticide test. Gerald Wilde, Kansas State University, Department of Entomology, Manhattan, KS, 66506.

Pest: Western Corn Rootworm, *Diabrotica vergifera vergifera*

Crop: Corn

Location: Norway, Ks. Site 1

Planting Date: May 4

Herbicide: 514 Fulltime at 3 qt/acre

Plot Size: 1 row 30 ft. Long, 4 replications, 30 inch row spacing

Experimental Design: Randomized Complete Block, 8 Treatments

Planting Information: Planted corn 1/ 2 inches in depth.

Field History: Corn 1997

Application Information: Insecticides applied with v-belt seeder in T Band.

Evaluation: Corn rootworm larvae damage rating on 10 plants per plot on July 2, 1999  
Scale 1-6: 1=no damage; 6=severe damage.

Phytotoxicity: none noted

Rainfall and Temperature: enclosed

Irrigation: Weekly. From 2nd week in June until July 4.

Soil: pH 6.4, OM 2.8%, sand 26%, silt 56%, clay 18%, CEC 20.3

Evaluation: Good rootworm pressure was present as noted by root ratings in the untreated plots. Some treatments were more effective than others.

Yield: Hand harvested on September 23. Yield expressed as bu/acre at 12.5% moisture.

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<u>TRT</u>	<u>FORM</u>	<u>RATE</u> <sup>1</sup>	<u>PLACE</u> <sup>2</sup>	<u>TIME</u> <sup>3</sup>	<u>ROOT</u>
1. Regent	4 SC	0.24 fl oz	IF	P	1.87 a
2. Aztec	2.1 G	6.7 oz	TB	P	2.19 abc
3. Aztec	2.1 G	6.7 oz	IF	P	2.44 abcd
4. Aztec	2.1 B	6.7 oz	TB	P	3.56 fghijk
5. Aztec	2.1 B	6.7 oz	IF	P	2.44 abcd
6. Counter 20 CR	6 oz		TB	P	3.75 ghijkl
7. Capture	1.1 G	5.3 oz	TB	P	4.63 mno
8. Capture	1.1 G	6.4 oz	TB	P	5.19 nop
9. Capture	1.1 G	8 oz	TB	P	5.19 nop
10. Capture	2 E	0.05 a.i.	TB	P	3.81 hijklm
11. Capture	2 E	0.06 a.i.	TB	P	3.37 efghi
12. Capture	2 E	0.075 a.i.	TB	P	2.75 bcdef
13. Force	3 G	4 oz	IF	P	4.12 ijklm
14. Untreated	-----	-----	-----	-----	5.25 op
15. Furadan	4 F	1.0 lb. a.i.	BR	C	2.94 cdefg
16. Lorsban	75 WG	1.3 a.i.	TB	P	3.12 defgh
17. Lorsban	75 WG	1.3 a.i.	IF	P	2.31 abcd
18. Lorsban	15 G	8 oz	TB	P	4.50 lmno
19. Lorsban	15 G	8 oz	IF	P	4.25 jklm
20. Lorsban	4 E	1.3 a.i.	TB	P	2.50 abcd
21. Thimet 20 G	6 oz		TB	P	3.63 ghijk
22. Fortress	5 G	3 oz	TB	P	3.50 ghijk
23. Force	3 G	4 oz	TB	P	4.50 lmno
24. Force	WF 2.5	0.24 fl. oz	B	P	2.13 abc
25. Force	WF 2.5	0.36 fl. oz	B	P	2.25 abc
26. Force	WF 2.5	0.48 fl. oz	B	P	1.94 abc
27. Force	WF 2.5	0.24 fl. oz	IF	P	2.63 abcde
28. Force	WF 2.5	0.36 fl. oz	IF	P	2.31 abcd
29. Force	WF 2.5	0.48 fl. oz	IF	P	2.44 abcd
30. Lorsban	4 E	1.3 a.i.	IF	P	2.63 abcde
31. Furadan	4 E	1.0	B	P	5.75 p
32. Furadan	4 E	1.0	IF	P	4.38 klmn

<sup>1</sup> Oz. per 1000 row ft or lb. a.i./acre

<sup>2</sup> IF - infurrow, TB-T-Band, BR-Broadcast

<sup>3</sup> P-Planting, C-Cultivation

Reference to specific products is provided solely for informational purposes. Experiments with pesticides on non-labeled crops or pests is part of the insecticide registration process, it does not imply endorsement or recommendation of non-labeled uses of pesticides by Kansas State University. All pesticide use must be consistent with current labels.

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